INTRODUCTION To The City Light Department

Presentation to the Budget Committee August 2010

PRESENTATION OUTLINE

- >> City Light at a Glance
 - Physical Plant
 - Budget and Organization
- **Trends**
- **Benchmarks**
- Challenges

Physical Plant

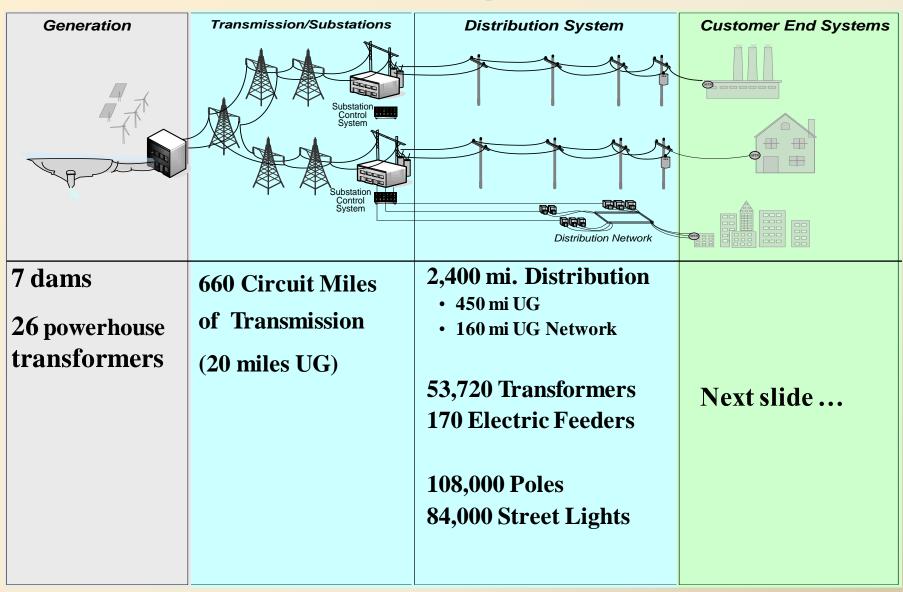
Function

At its most basic, City Light is charged with meeting the electricity needs of its customers. To do this it

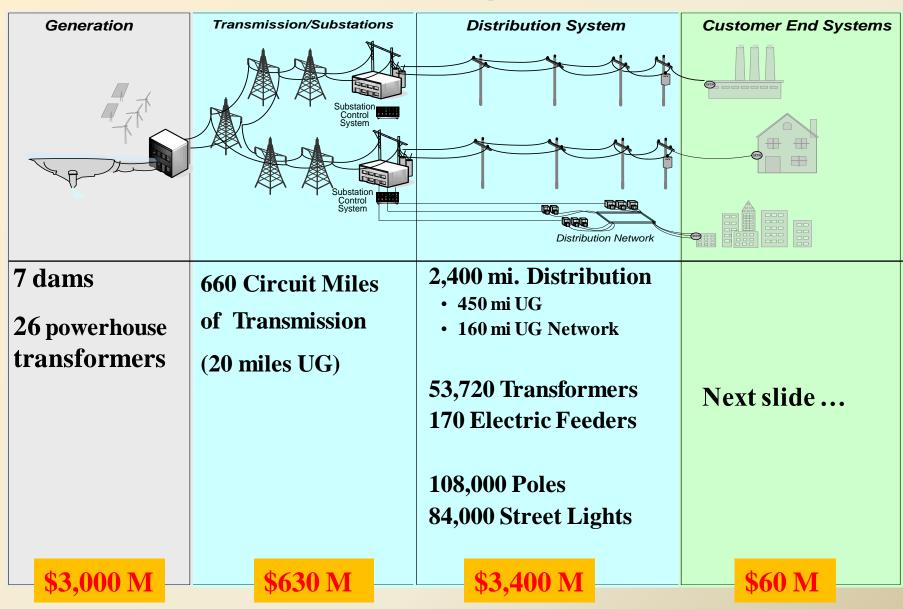
- Own and operates electricity generating plants
- Owns and operates an electricity delivery system
- Has long-term contracts to purchase electricity
- Continually trades electricity in the wholesale market

Although a City department in every respect, the revenues City Light generates and the resources it owns can be used only for utility purposes

Vertically Integrated Utility

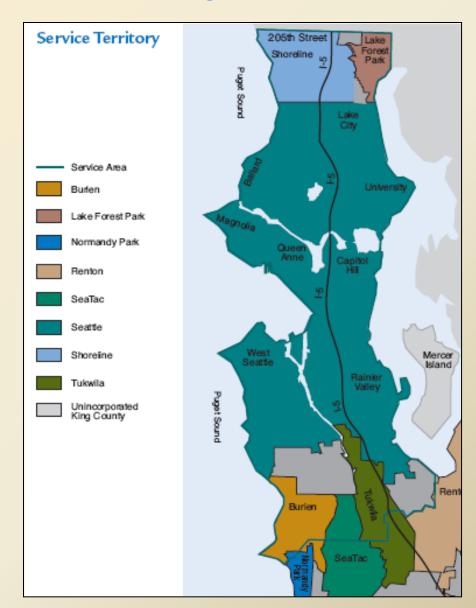


Vertically Integrated Utility

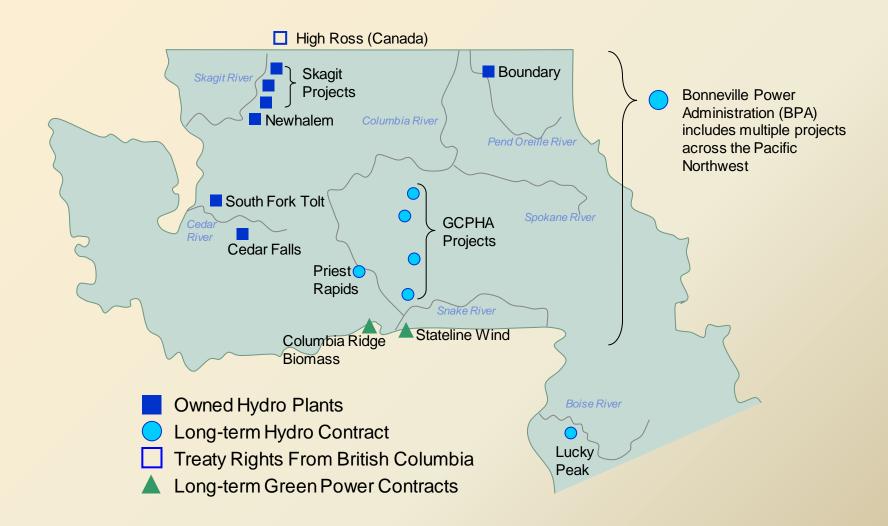


Service Territory

- 130-square-mile service territory
- Seattle & seven franchise areas
- 15 major substations
- Service area population: 750,000
- 400,000 meters 80% in Seattle
- 10th largest Public Power utility in the US and largest in the Northwest (by customers served)

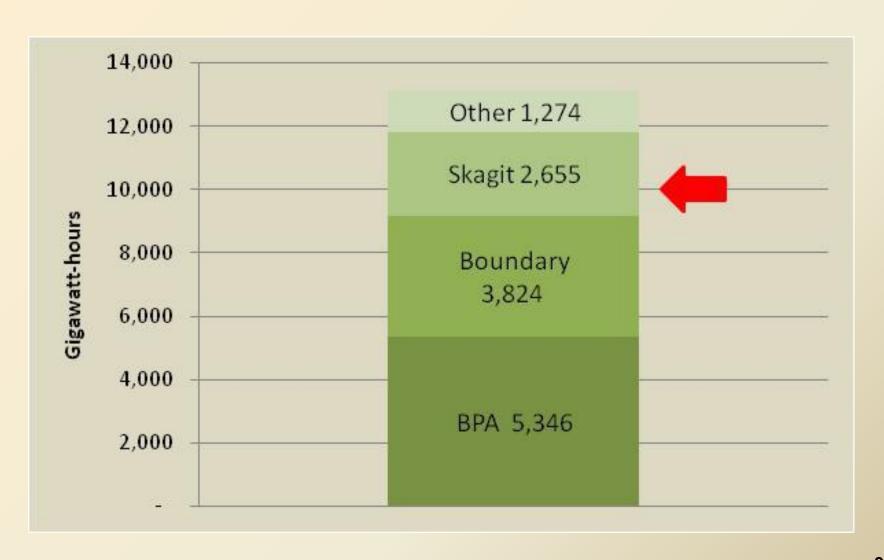


Generation Resources



Generation & Demand

Under Average Hydro Conditions



Role of Wholesale Market



Budget & Organization

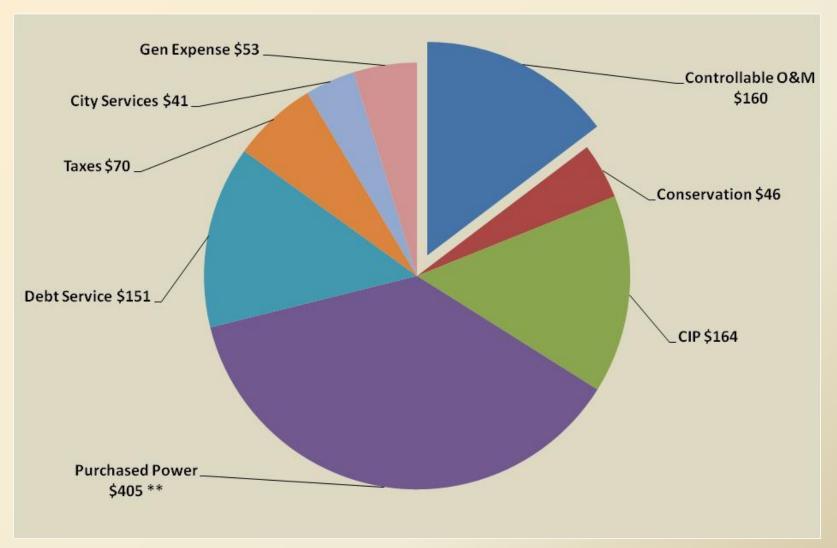
Organizational Structure

Jorge Carrasco

Chief of Staff	Customer Service & Energy Delivery	Financial Service	Power Supply & Environ'l Affairs	Human Resources	Internal Compliance
<u>Vacant</u>	<u>Phillip West</u>	<u>Phillip Leiber</u>	<u>Steve Kern</u>	<u>DaVonna Johnson</u>	<u>Mike Haynes</u>
Govt. & Legislative Affairs	Customer Care	Finance	Integrated Resource Planning	Talent Acquisition	Security & Emergency Mgmt
Communications & Public Affairs	Energy Delivery (Operations)	Accounting	Power Operations & Marketing	Labor Relations	
	Energy Delivery (Engineering)	Risk Mgmt & Strategic Planning	Conservation Resources	Safety	
	Asset Management	Corporate Performance	Utility Support Services	Employee Relations	
	System Operations	Information Technology	Power Contracts & Resource Acq'n		
			Environmental Affairs		
			Power Production		
O&M: \$3.1M CIP: -	\$85.5M \$109.1M	\$28.9M \$6.4M	\$512.2M \$46.2M	\$6.5M -	\$1.8M \$3.0M
FTE: 20	1,068	205	475	58	15

2010 Adopted Budget: USES

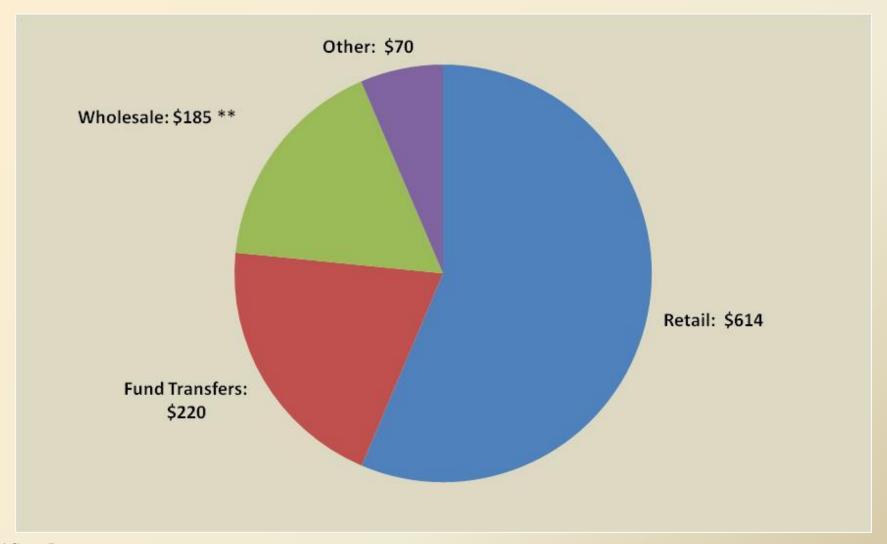
Total = \$1.1 Billion; Amounts shown in Millions



^{**} Includes short-term purchases, excludes costs of owned generation.

2010 Adopted Budget: SOURCES

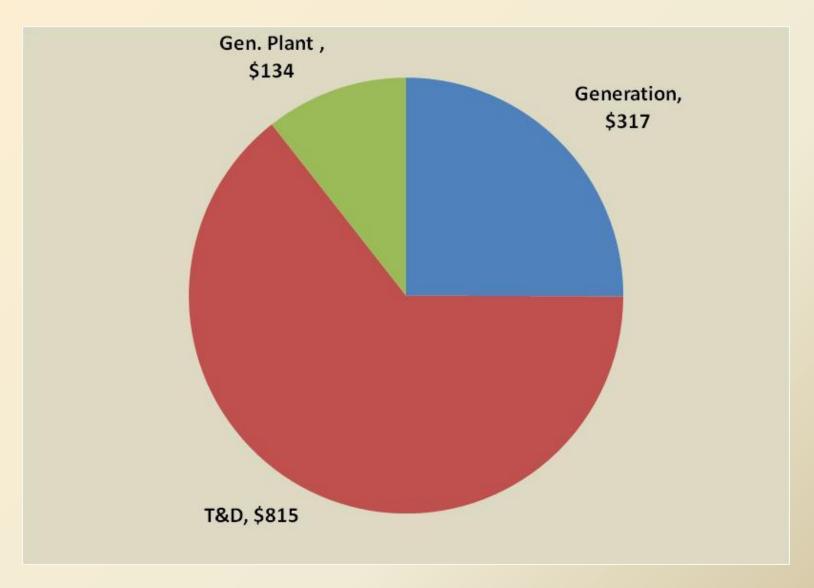
Total = \$1.1 Billion; Amounts shown in Millions



^{**}Gross Revenues

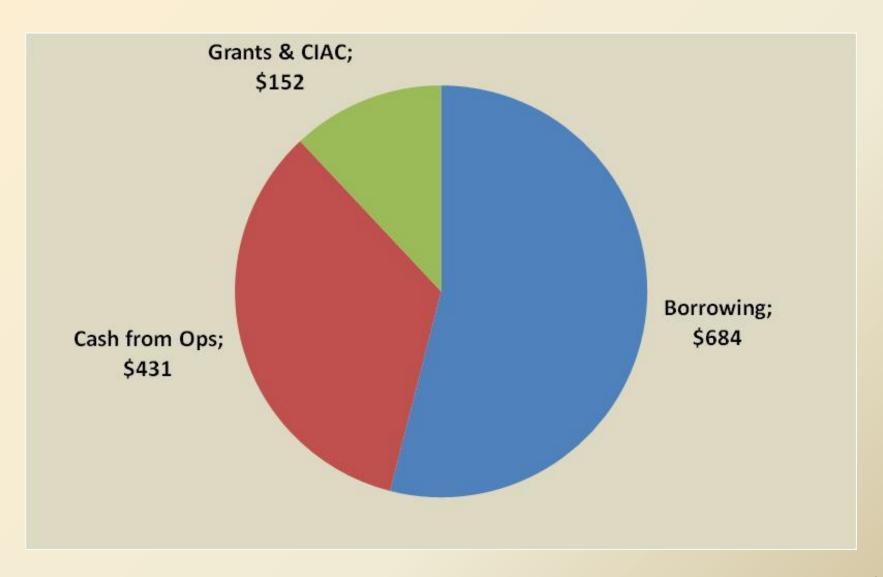
2010-2015 Six-Year CIP: USES

Total = 1.27 Billion; Amounts shown in Millions



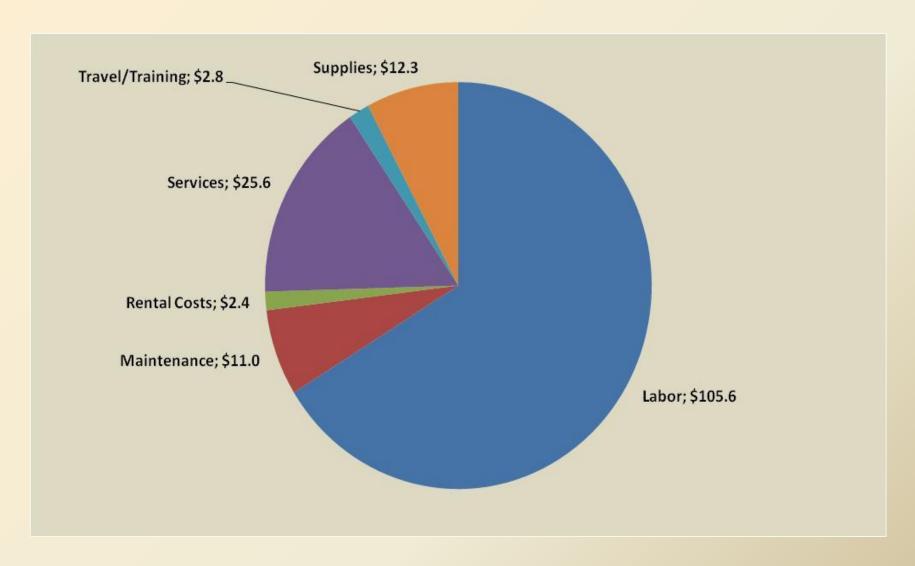
2010-2015 Six-Year CIP: SOURCES

Total = \$1.2 Billion; Amounts shown in Millions



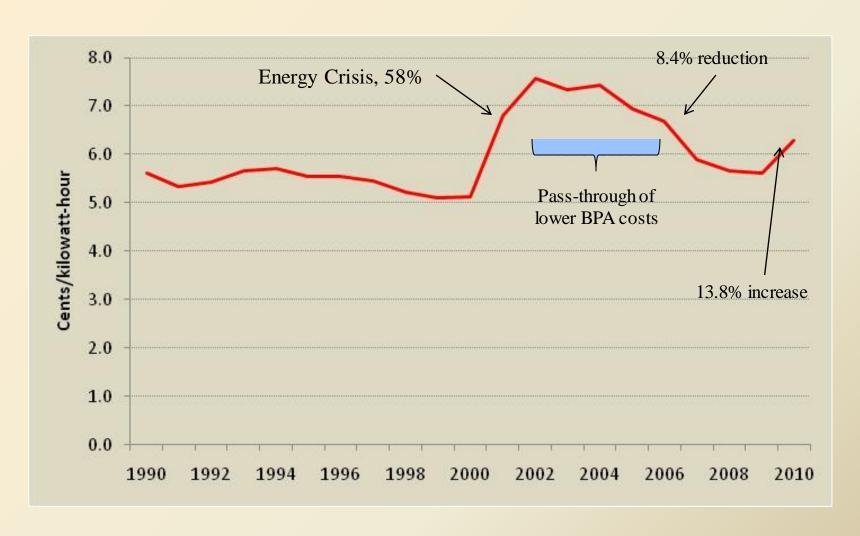
Controllable O&M

Total = \$159.6 Million; Amounts shown in Millions

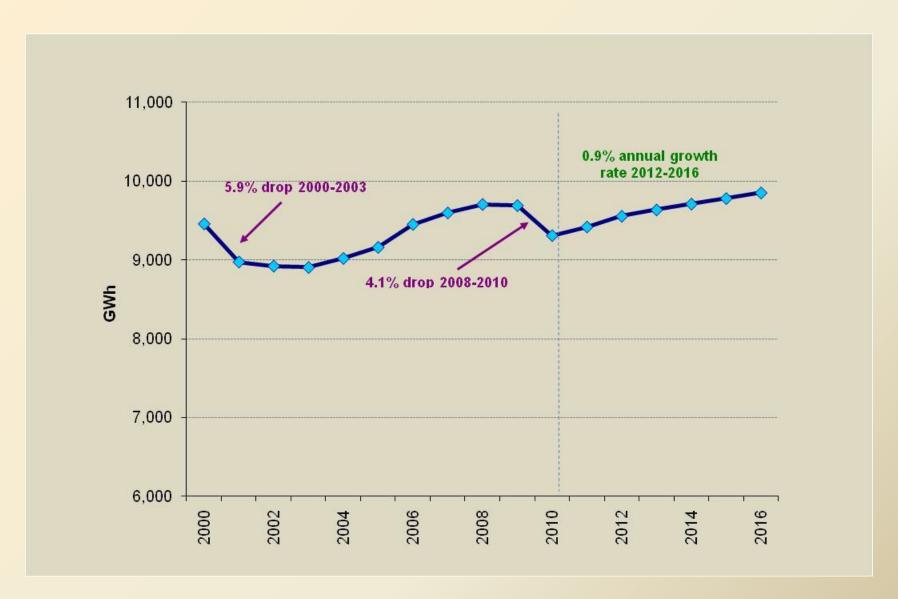


Trends

Recent Rate History



Recent Load History



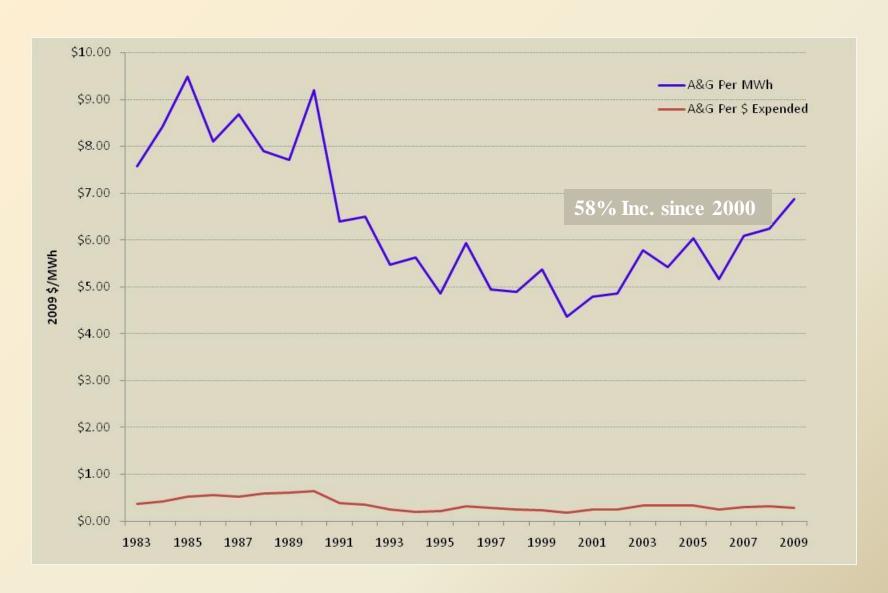
Debt Outstanding



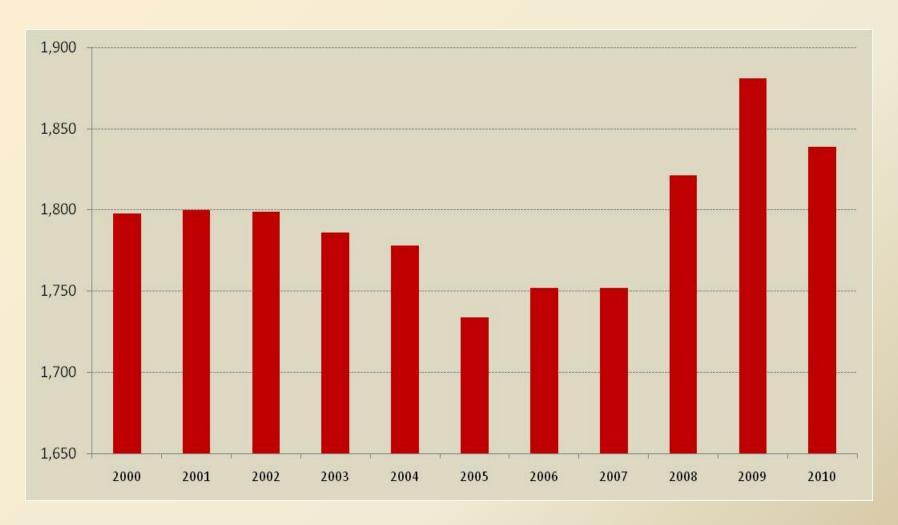
Total Expenditures



Administrative Costs

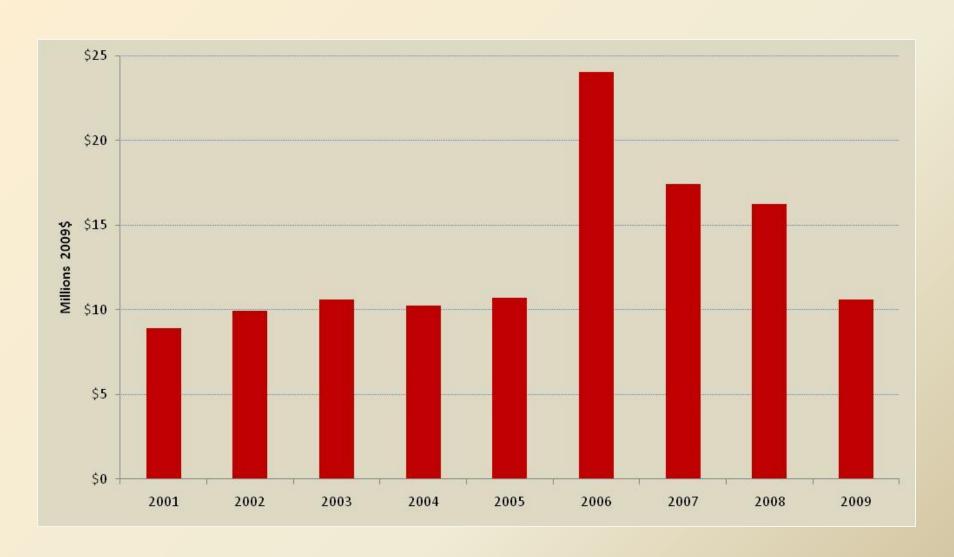


Authorized FTE



Note: Changes are exaggerated by vertical scale

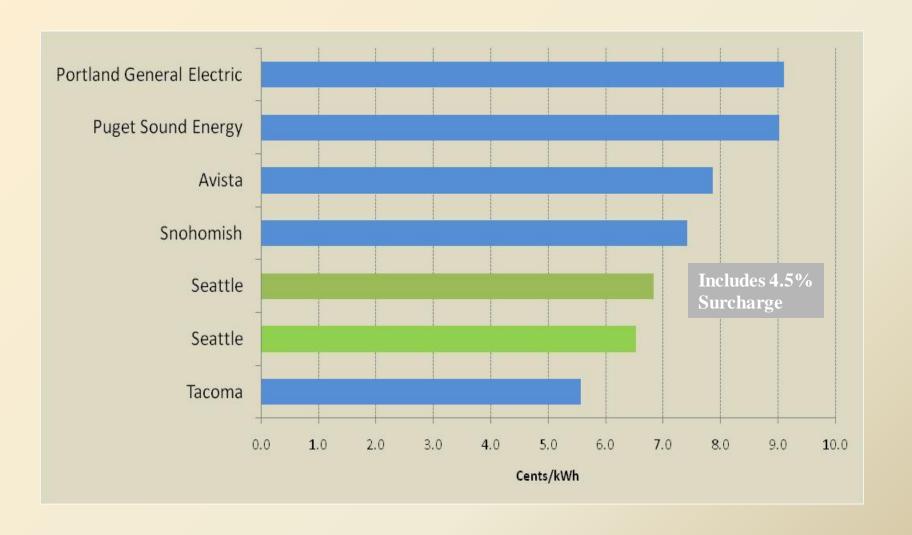
T&D Overtime Costs



Benchmarks

Rate Comparison

Cents/kilowatt-hour

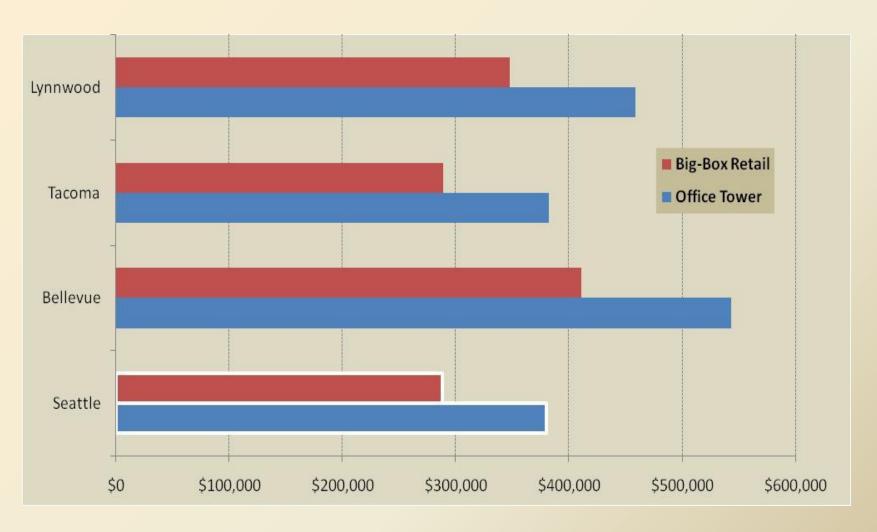


Bill Comparison

Large Biotech



Bill Comparison Box-store/Office Tower



Bill Comparison Medium Industrial

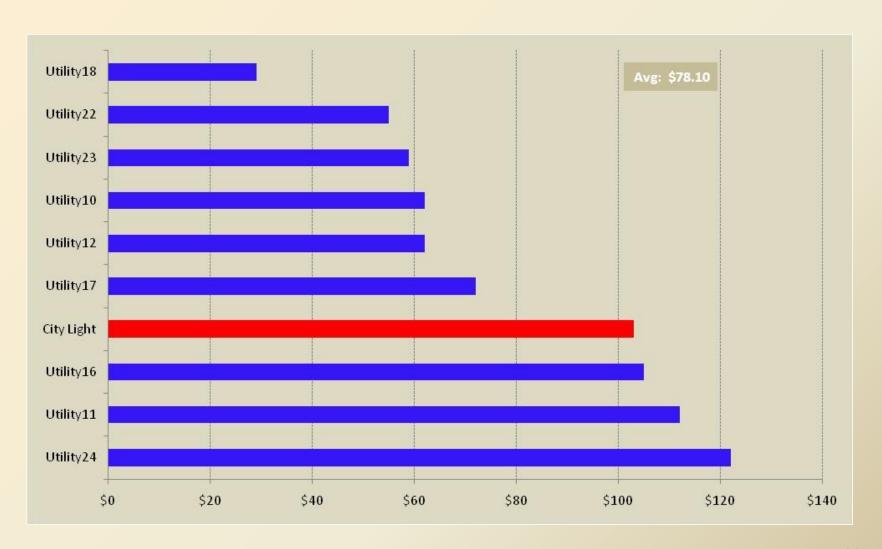


Bill Comparison Small Manufacturing



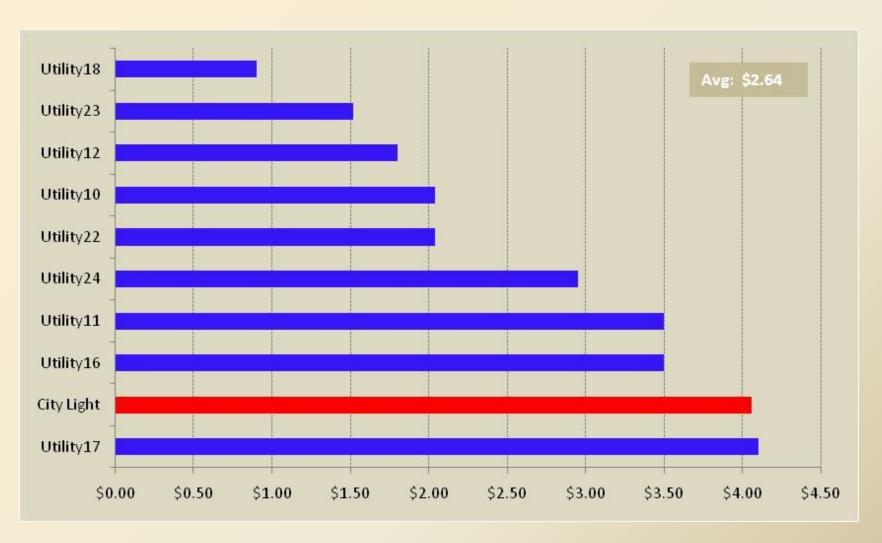
T&D System

Expense Per Customer



T&D System

Expense Per MWh of Load



Challenges

Challenges

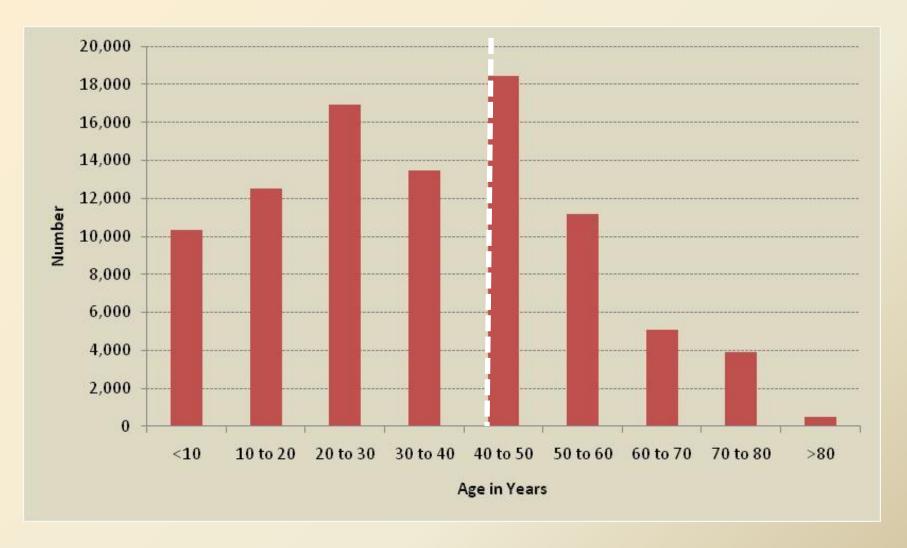
>T&D Issues

- Aging Distribution Infrastructure
- External Drivers: Utility Relocations & Regional Transmission Issues
- System Enhancement

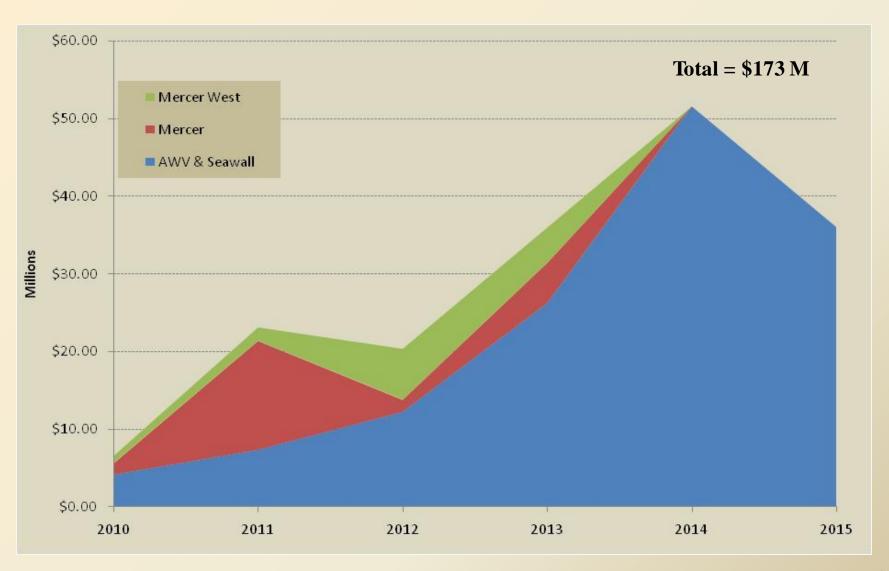
> Generation Issues

- Resource Acquisition Costs
- Boundary Relicensing Cost
- > Utility Wide: Aging workforce

Aging InfrastructurePoles, For Example



External Cost Drivers



System Enhancements

> System Automation (SCADA)

- > Smart Meters
 - 400,000+ Meters; ~ 40% over 30 years old
 - Replacement cost > \$100 million
- > Smart Grid

Challenges

>T&D Issues

- Aging Distribution Infrastructure
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- System Enhancement

> Generation Issues

- Resource Acquisition Costs
- Boundary Relicensing Cost

> Utility Wide: Aging workforce

Boundary Dam License

- > Total Generating Capacity: 1,070 MW
- Produces around 27% of City Light's power
- Critical to Meeting Daily Load Peaks
- Relicense Expense Will Likely Double \$/MWh From the Plant



Resource Acquisition

- > 380,000 MWh of Renewable Energy or Credits by 2016
- > \$/MWh Typically 3-4 Times City Light's Current Average Power Costs
- > Will Add ~ 3% to Base Rates

Challenges

>T&D Issues

- Aging Distribution Infrastructure
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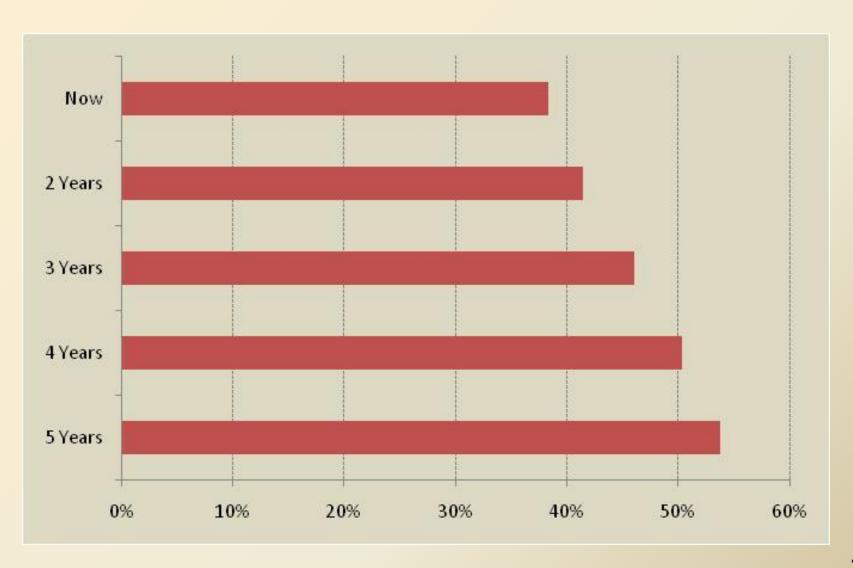
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Workforce

% of Workforce Eligible to Retire



Questions?